

SEQUENCE LISTING

<110> Kindsvoel, Wayne

<120> Antibodies That Bind Both BCMA and TACI

<130> 01-04

<150> 60/270,274

<151> 2001-02-20

<150> 60/283,447

<151> 2001-04-12

<160> 5

<170> FastSEQ for Windows Version 3.0

<210> 1

<211> 995

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (219)...(770)

<400> 1

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agctgctctt gctgcatttg ctctggaatt cttgtagaga tattacttgt ccttccaggc 180
tgttctttct gtagctccct tgttttcttt ttgtgatc atg ttg cag atg gct ggg 236
                                Met Leu Gln Met Ala Gly
                                1             5

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cag tgc tcc caa aat gaa tat ttt gac agt ttg ttg cat gct tgc ata 284
Gln Cys Ser Gln Asn Glu Tyr Phe Asp Ser Leu Leu His Ala Cys Ile
          10             15             20

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cct tgt caa ctt cga tgt tct tct aat act cct cct cta aca tgt cag 332
Pro Cys Gln Leu Arg Cys Ser Ser Asn Thr Pro Pro Leu Thr Cys Gln
          25             30             35

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2009020"52/229007

cgt tat tgt aat gca agt gtg acc aat tca gtg aaa gga acg aat gcg 380
 Arg Tyr Cys Asn Ala Ser Val Thr Asn Ser Val Lys Gly Thr Asn Ala
 40 45 50

att ctc tgg acc tgt ttg gga ctg agc tta ata att tct ttg gca gtt 428
 Ile Leu Trp Thr Cys Leu Gly Leu Ser Leu Ile Ile Ser Leu Ala Val
 55 60 65 70

ttc gtg cta atg ttt ttg cta agg aag ata agc tct gaa cca tta aag 476
 Phe Val Leu Met Phe Leu Leu Arg Lys Ile Ser Ser Glu Pro Leu Lys
 75 80 85

gac gag ttt aaa aac aca gga tca ggt ctc ctg ggc atg gct aac att 524
 Asp Glu Phe Lys Asn Thr Gly Ser Gly Leu Leu Gly Met Ala Asn Ile
 90 95 100

gac ctg gaa aag agc agg act ggt gat gaa att att ctt ccg aga ggc 572
 Asp Leu Glu Lys Ser Arg Thr Gly Asp Glu Ile Ile Leu Pro Arg Gly
 105 110 115

ctc gag tac acg gtg gaa gaa tgc acc tgt gaa gac tgc atc aag agc 620
 Leu Glu Tyr Thr Val Glu Glu Cys Thr Cys Glu Asp Cys Ile Lys Ser
 120 125 130

aaa ccg aag gtc gac tct gac cat tgc ttt cca ctc cca gct atg gag 668
 Lys Pro Lys Val Asp Ser Asp His Cys Phe Pro Leu Pro Ala Met Glu
 135 140 145 150

gaa ggc gca acc att ctt gtc acc acg aaa acg aat gac tat tgc aag 716
 Glu Gly Ala Thr Ile Leu Val Thr Thr Lys Thr Asn Asp Tyr Cys Lys
 155 160 165

agc ctg cca gct gct ttg agt gct acg gag ata gag aaa tca att tct 764
 Ser Leu Pro Ala Ala Leu Ser Ala Thr Glu Ile Glu Lys Ser Ile Ser
 170 175 180

gct agg taattaacca ttctgactcg agcagtgcca ctttaaaaat cttttgtcag 820
 Ala Arg

aatagatgat gtgtcagatc tcittaggat gactgtatatt ttcagttgcc gatacagctt 880
 ttgtcctct aactgtggaa actctttatg ttagatatat ttctctaggt tactgttggg 940

agcttaatgg tagaaacttc cttggtttca tgattaaagt cttttttttt cctga 995

<210> 2
 <211> 184
 <212> PRT
 <213> Homo sapiens

<400> 2

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 Leu Leu His Ala Cys Ile Pro Cys Gln Leu Arg Cys Ser Ser Asn Thr
 20 25 30
 Pro Pro Leu Thr Cys Gln Arg Tyr Cys Asn Ala Ser Val Thr Asn Ser
 35 40 45
 Val Lys Gly Thr Asn Ala Ile Leu Trp Thr Cys Leu Gly Leu Ser Leu
 50 55 60
 Ile Ile Ser Leu Ala Val Phe Val Leu Met Phe Leu Leu Arg Lys Ile
 65 70 75 80
 Ser Ser Glu Pro Leu Lys Asp Glu Phe Lys Asn Thr Gly Ser Gly Leu
 85 90 95
 Leu Gly Met Ala Asn Ile Asp Leu Glu Lys Ser Arg Thr Gly Asp Glu
 100 105 110
 Ile Ile Leu Pro Arg Gly Leu Glu Tyr Thr Val Glu Glu Cys Thr Cys
 115 120 125
 Glu Asp Cys Ile Lys Ser Lys Pro Lys Val Asp Ser Asp His Cys Phe
 130 135 140
 Pro Leu Pro Ala Met Glu Glu Gly Ala Thr Ile Leu Val Thr Thr Lys
 145 150 155 160
 Thr Asn Asp Tyr Cys Lys Ser Leu Pro Ala Ala Leu Ser Ala Thr Glu
 165 170 175
 Ile Glu Lys Ser Ile Ser Ala Arg
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<210> 3
 <211> 1377
 <212> DNA
 <213> Homo sapiens

<220>
 <221> CDS
 <222> (14)...(892)

<400> 3

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Ser Arg Val Asp Gln Glu Glu Arg Phe Pro Gln Gly Leu Trp Thr Gly	
15 20 25	
gtg gct atg aga tcc tgc ccc gaa gag cag tac tgg gat cct ctg ctg	145
Val Ala Met Arg Ser Cys Pro Glu Glu Gln Tyr Trp Asp Pro Leu Leu	
30 35 40	
ggt acc tgc atg tcc tgc aaa acc att tgc aac cat cag agc cag cgc	193
Gly Thr Cys Met Ser Cys Lys Thr Ile Cys Asn His Gln Ser Gln Arg	
45 50 55 60	
acc tgt gca gcc ttc tgc agg tca ctc agc tgc cgc aag gag caa ggc	241
Thr Cys Ala Ala Phe Cys Arg Ser Leu Ser Cys Arg Lys Glu Gln Gly	
65 70 75	
aag ttc tat gac cat ctc ctg agg gac tgc atc agc tgt gcc tcc atc	289
Lys Phe Tyr Asp His Leu Leu Arg Asp Cys Ile Ser Cys Ala Ser Ile	
80 85 90	
tgt gga cag cac cct aag caa tgt gca tac ttc tgt gag aac aag ctc	337
Cys Gly Gln His Pro Lys Gln Cys Ala Tyr Phe Cys Glu Asn Lys Leu	
95 100 105	
agg agc cca gtg aac ctt cca cca gag ctc agg aga cag cgg agt gga	385
Arg Ser Pro Val Asn Leu Pro Pro Glu Leu Arg Arg Gln Arg Ser Gly	
110 115 120	
gaa gtt gaa aac aat tca gac aac tcg gga agg tac caa gga ttg gag	433
Glu Val Glu Asn Asn Ser Asp Asn Ser Gly Arg Tyr Gln Gly Leu Glu	
125 130 135 140	
cac aga ggc tca gaa gca agt cca gct ctc ccg ggg ctg aag ctg agt	481
His Arg Gly Ser Glu Ala Ser Pro Ala Leu Pro Gly Leu Lys Leu Ser	
145 150 155	
gca gat cag gtg gcc ctg gtc tac agc acg ctg ggg ctc tgc ctg tgt	529
Ala Asp Gln Val Ala Leu Val Tyr Ser Thr Leu Gly Leu Cys Leu Cys	
160 165 170	

gcc gtc ctc tgc tgc ttc ctg gtg gcg gtg gcc tgc ttc ctc aag aag 577
 Ala Val Leu Cys Cys Phe Leu Val Ala Val Ala Cys Phe Leu Lys Lys
 175 180 185

agg ggg gat ccc tgc tcc tgc cag ccc cgc tca agg ccc cgt caa agt 625
 Arg Gly Asp Pro Cys Ser Cys Gln Pro Arg Ser Arg Pro Arg Gln Ser
 190 195 200

ccg gcc aag tct tcc cag gat cac gcg atg gaa gcc ggc agc cct gtg 673
 Pro Ala Lys Ser Ser Gln Asp His Ala Met Glu Ala Gly Ser Pro Val
 205 210 215 220

agc aca tcc ccc gag cca gtg gag acc tgc agc ttc tgc ttc cct gag 721
 Ser Thr Ser Pro Glu Pro Val Glu Thr Cys Ser Phe Cys Phe Pro Glu
 225 230 235

tgc agg gcg ccc acg cag gag agc gca gtc acg cct ggg acc ccc gac 769
 Cys Arg Ala Pro Thr Gln Glu Ser Ala Val Thr Pro Gly Thr Pro Asp
 240 245 250

ccc act tgt gct gga agg tgg ggg tgc cac acc agg acc aca gtc ctg 817
 Pro Thr Cys Ala Gly Arg Trp Gly Cys His Thr Arg Thr Thr Val Leu
 255 260 265

cag cct tgc cca cac atc cca gac agt ggc ctt ggc att gtg tgt gtg 865
 Gln Pro Cys Pro His Ile Pro Asp Ser Gly Leu Gly Ile Val Cys Val
 270 275 280

cct gcc cag gag ggg ggc cca ggt gca taaatggggg tcaggaggagg 912
 Pro Ala Gln Glu Gly Gly Pro Gly Ala
 285 290

aaaggaggag ggagagagat ggagaggagg ggagagagaa agagaggttg ggagagggga 972
 gagagatatg aggagagaga gacagaggag gcagaaaggg agagaaacag aggagacaga 1032
 gagggagaga gagacagagg gagagagaga cagaggggaa gagaggcaga gagggaaaga 1092
 ggcagagaag gaaagagaca ggcagagaag gagagaggca gagagggaga gaggcagaga 1152
 gggagagagg cagagagaca gagagggaga gagggacaga gagagataga gcaggagggtc 1212
 ggggcactct gagtcccagt tcccagtgc gctgtaggtc gtcacacacgt aaccacacgt 1272
 gcaataaagt cctcgtgcct gctgctcaca gccccgaga gccctcctc ctggagaata 1332
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<211> 293

<212> PRT

<213> Homo sapiens

<400> 4

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Ser Cys Pro Glu Glu Gln Tyr Trp Asp Pro Leu Leu Gly Thr Cys Met
      35          40          45
Ser Cys Lys Thr Ile Cys Asn His Gln Ser Gln Arg Thr Cys Ala Ala
 50          55          60
Phe Cys Arg Ser Leu Ser Cys Arg Lys Glu Gln Gly Lys Phe Tyr Asp
65          70          75          80
His Leu Leu Arg Asp Cys Ile Ser Cys Ala Ser Ile Cys Gly Gln His
      85          90          95
Pro Lys Gln Cys Ala Tyr Phe Cys Glu Asn Lys Leu Arg Ser Pro Val
      100          105          110
Asn Leu Pro Pro Glu Leu Arg Arg Gln Arg Ser Gly Glu Val Glu Asn
      115          120          125
Asn Ser Asp Asn Ser Gly Arg Tyr Gln Gly Leu Glu His Arg Gly Ser
      130          135          140
Glu Ala Ser Pro Ala Leu Pro Gly Leu Lys Leu Ser Ala Asp Gln Val
      145          150          155          160
Ala Leu Val Tyr Ser Thr Leu Gly Leu Cys Leu Cys Ala Val Leu Cys
      165          170          175
Cys Phe Leu Val Ala Val Ala Cys Phe Leu Lys Lys Arg Gly Asp Pro
      180          185          190
Cys Ser Cys Gln Pro Arg Ser Arg Pro Arg Gln Ser Pro Ala Lys Ser
      195          200          205
Ser Gln Asp His Ala Met Glu Ala Gly Ser Pro Val Ser Thr Ser Pro
      210          215          220
Glu Pro Val Glu Thr Cys Ser Phe Cys Phe Pro Glu Cys Arg Ala Pro
      225          230          235          240
Thr Gln Glu Ser Ala Val Thr Pro Gly Thr Pro Asp Pro Thr Cys Ala
      245          250          255
Gly Arg Trp Gly Cys His Thr Arg Thr Thr Val Leu Gln Pro Cys Pro
      260          265          270
His Ile Pro Asp Ser Gly Leu Gly Ile Val Cys Val Pro Ala Gln Glu
      275          280          285
Gly Gly Pro Gly Ala
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<210> 5
 <211> 285
 <212> PRT
 <213> Homo sapiens

<400> 5

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			20					25					30		
Arg	Lys	Glu	Ser	Pro	Ser	Val	Arg	Ser	Ser	Lys	Asp	Gly	Lys	Leu	Leu
			35				40					45			
Ala	Ala	Thr	Leu	Leu	Leu	Ala	Leu	Leu	Ser	Cys	Cys	Leu	Thr	Val	Val
			50			55					60				
Ser	Phe	Tyr	Gln	Val	Ala	Ala	Leu	Gln	Gly	Asp	Leu	Ala	Ser	Leu	Arg
65				70						75				80	
Ala	Glu	Leu	Gln	Gly	His	His	Ala	Glu	Lys	Leu	Pro	Ala	Gly	Ala	Gly
			85						90				95		
Ala	Pro	Lys	Ala	Gly	Leu	Glu	Glu	Ala	Pro	Ala	Val	Thr	Ala	Gly	Leu
			100					105					110		
Lys	Ile	Phe	Glu	Pro	Pro	Ala	Pro	Gly	Glu	Gly	Asn	Ser	Ser	Gln	Asn
			115			120						125			
Ser	Arg	Asn	Lys	Arg	Ala	Val	Gln	Gly	Pro	Glu	Glu	Thr	Val	Thr	Gln
			130			135						140			
Asp	Cys	Leu	Gln	Leu	Ile	Ala	Asp	Ser	Glu	Thr	Pro	Thr	Ile	Gln	Lys
145				150						155				160	
Gly	Ser	Tyr	Thr	Phe	Val	Pro	Trp	Leu	Leu	Ser	Phe	Lys	Arg	Gly	Ser
			165					170					175		
Ala	Leu	Glu	Glu	Lys	Glu	Asn	Lys	Ile	Leu	Val	Lys	Glu	Thr	Gly	Tyr
			180					185					190		
Phe	Phe	Ile	Tyr	Gly	Gln	Val	Leu	Tyr	Thr	Asp	Lys	Thr	Tyr	Ala	Met
			195			200						205			
Gly	His	Leu	Ile	Gln	Arg	Lys	Lys	Val	His	Val	Phe	Gly	Asp	Glu	Leu
			210			215					220				
Ser	Leu	Val	Thr	Leu	Phe	Arg	Cys	Ile	Gln	Asn	Met	Pro	Glu	Thr	Leu
225				230						235				240	
Pro	Asn	Asn	Ser	Cys	Tyr	Ser	Ala	Gly	Ile	Ala	Lys	Leu	Glu	Glu	Gly
			245					250					255		
Asp	Glu	Leu	Gln	Leu	Ala	Ile	Pro	Arg	Glu	Asn	Ala	Gln	Ile	Ser	Leu
			260					265					270		
Asp	Gly	Asp	Val	Thr	Phe	Phe	Gly	Ala	Leu	Lys	Leu	Leu			
			275				280					285			

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